

Book online, or contact us at:

Scientists in School
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**2018-2019 Scientists in School
STEM Workshop Program
for Kindergarten to Grade 6**



For Best Possible Dates
BOOK EARLY
www.scientistsinschool.ca



**SCIENTISTS
IN SCHOOL
SCIENTIFIQUES
À L'ÉCOLE**

A Canadian registered charity (#867139537RR0001)

**Brockville and Area
(Lanark, Leeds, Grenville
and Dundas Counties)**

2018-2019 Scientists in School Classroom Workshop Program

for Brockville and Area (Lanark, Leeds, Grenville and Dundas Counties)



BACKYARD BUGS

KINDERGARTEN

Follow-up Teacher Resources | Volunteers Required

'Bee' an entomologist! Meet the insect family and discover their unique anatomy. Investigate how bugs behave, eat, see and hear. Learn about camouflage and metamorphosis, 'eat' with a proboscis and see the world through dragonfly eyes.



I CAN BE A SCIENTIST

KINDERGARTEN

Follow-up Teacher Resources | Volunteers Required

Become a working scientist! Dig for dinosaur bones and make a fossil as a paleontologist. Explore the weather as a meteorologist while making it rain in the classroom. Become an astronomer and discover the Big Dipper in our constellation tent. Use a lab coat and safety goggles to find the solution as a chemist in the lab!



ENERGY MAKES IT HAPPEN

GRADE 1

Matter and Energy | Follow-up Teacher Resources | Volunteers Required

Investigate the power of the sun as you explore the impact energy has on our daily lives! Make a bubble grow using your own body heat as you investigate thermal energy. Build a circuit to make light and sound. Harness light energy using a solar panel to create a cool painting!



ANIMAL COVERINGS AND ADAPTATIONS

GRADE 1&2

Earth and Space Systems | Follow-up Teacher Resources | Volunteers Required

Investigate the insulating properties of a variety of animal coverings and discover some of the amazing adaptations animals use to survive seasonal changes. Use a microscope to explore some of nature's most unusual coverings and get your hands on real quills, shells, scales, feathers and fur!



MOVE IT!

GRADE 2

Structures and Mechanisms | Follow-up Teacher Resources | Volunteers Required

Discover how simple machines make work easier! Construct your own car while exploring wheels and axles. Go fishing to experiment with levers. Investigate wedges, make your own screw, and learn about inclined planes.

BOOK ONLINE - IT'S EASY! Visit www.scientistsinschool.ca to book your \$199.00 workshop, download Resources and STEM-based activities, and find our cancellation and booking policies.

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ADVENTURES IN THE BONE ZONE

GRADES 3-6

Special Interest | Follow-up Teacher Resources | Volunteers Required for Grade 3

Join this ecological adventure and dissect an owl pellet using a magnifying glass to sort and identify bones, and assemble a rodent skeleton. Examine a variety of mammalian skulls to determine species and explore similarities and differences between herbivores and carnivores.



FORCE, OF COURSE!

GRADE 3

Matter and Energy | Follow-up Teacher Resources | Volunteers Required

What is force? What are the different types and how do they behave? Students will explore friction, magnetism, elastic energy, gravity and much more through an engaging series of investigations.

“I organize a workshop for my classroom scientists each year. They are so engaged with the hands-on activities. They ask questions, make predictions, test their hypotheses, and create meaning and understanding from their explorations. The resources are amazing, and truly spark a love for STEM. I will definitely keep Scientists in School on our ‘Must Do List’ for next year!”



GEARING UP: FUN WITH PULLEYS AND GEARS

GRADE 4

Structures and Mechanisms | Follow-up Teacher Resources | Volunteers Required

Step into the physics lab and learn how pulleys and gears change the force required to do work! Create a work of art using an internal gear system. Build a variety of pulley systems, design and construct a gear train and explore how pulleys and gears can change the direction of an applied force.



BODY WORKS

GRADE 5

Life Systems | Follow-up Teacher Resources

Design and build a kidney system. Identify bone structures from X-rays. Use stethoscopes to locate and measure your heart rate. Students will explore these fascinating systems within the human body: digestive, excretory, respiratory, circulatory, nervous, and musculoskeletal.

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Scientists in School

A non-profit offering experiential science, technology, engineering, math (STEM), and environmental workshops.

Your inquisitive students, under the guidance of experts, will become scientists, engineers and environmental stewards while developing the global competency skills they need for tomorrow's workforce.

Our workshops offer:

- ✓ An inquiry-based, curriculum-enriching experience with plentiful scientific materials
- ✓ Local presenters who are scientists, engineers, technologists and more
- ✓ The opportunity to highlight STEM careers
- ✓ Post-workshop extension packages to support your lessons
- ✓ Fun and relevant content that builds critical thinking, collaboration, creativity, communication, and problem-solving skills

We work with teachers, educators and school boards to ensure that our program aligns with curriculum, student and educator needs.

Like you, our goal is to inspire all children to realize their dreams, regardless of their future aspirations.

Our Mission is to ignite scientific curiosity in children so that they question intelligently; learn through discovery; connect scientific knowledge to their world; are excited about science, technology, engineering and math; and have their interest in careers in those fields piqued.

Our Vision is for all young Canadians to be actively engaged in the seeing, doing and understanding of science.

Collaborators in Education:

We use an evidence-based approach to provide high-impact workshops that enhance curriculum and provide real-world experiences for your students. A recent post-workshop survey* of first-time users (teachers) of our workshops showed:

- 94%** discovered new ideas to use in their science program
- 86%** felt our workshops heightened student interest in STEM
- 85%** felt our workshops helped their students better understand the STEM done in class
- 83%** felt Scientists in School encouraged their students to use critical-thinking skills, evidence-based reasoning and argumentation

* Survey conducted in 140 schools by Western University researchers

Our Impact By The Numbers

(2017-2018: Ontario)



634,000

Children and youth inspired through workshops



23,478

Half-day classroom workshops delivered



58,700

Parent volunteers joined in the classroom



1,585,000

Face time hours of investigation



9,000,000

Young scientists across Ontario and Alberta since 1989!